OLIGONUCLEOTIDES USED FOR DETECTING VIBRIO PARAHAEMOLYTICUS AND METHOD OF DETECTION THEREWITH

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Abstract of **WO9735970**

An oligonucleotide having a nucleic acid sequence derived from SEQ ID NO:1 and at least one site capable of amplifying a nucleic acid sequence characteristic of Vibrio parahaemolyticus; the above oligonucleotide having a nucleic acid sequence unavailable from SEQ ID NO:3; the above oligonucleotid incapable of amplifying nucleic acid sequences originating in Vibrio alginolyticus and Vibrio harvei; the above oligonucleotide represented by the sequence of CGG CGT GGG TGT TTC GGT AGT or TCC GC TCG CGC TCA TCA ATA; and a method of detecting Vibrio parahaemolyticus by preparing a primer set comprising two of the above oligonucleotides, selectively amplifying therewith a DNA gyrase subunit B gene sequence contained in a specimen as a target, and determining whether or not there is a gyrB unit specific for Vibrio parahaemolyticus in the specimen. This method has made it possible to provide a primer which specifically reacts with a gyrB gene of Vibrio parahaemolyticus to thereby differentiate and identify the same among other vibrios and strains other than the genus Vibrio. The primer specific for Vibrio parahaemolyticus serves to detect 285-bp gyrB gene fragments specific for this vibrio by the PCR method without the necessity for DNA extraction or like operations from bacterial cells.